EXHIBIT C

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UNITED STATES DISTRICT COURT
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 2
             EASTERN DISTRICT OF MICHIGAN
 3
                   SOUTHERN DIVISION
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    IN RE:
 6
    FLINT WATER CASES
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                         | No: 5:16-cv-10444-JEL-EAS
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                          HON. JUDITH E. LEVY
                          | MAG. ELIZABETH A. STAFFORD
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    Pages 1 - 204.
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13
    The videotaped deposition of DAVID CROWE, Ph.D.
14
    taken via Golkow Virtual Remote,
15
    commencing at 10:04 a.m.
16
    Tuesday, April 18, 2023
17
    before Ann L. Bacon CSR-1297.
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    VIDEOGRAPHER: MR. BILL GEIGERT
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- 1 corrosion control resulted in elevated lead
- 2 release, correct, sir?
- MR. TER MOLEN: Objection, asked and
- 4 answered.
- 5 A. The evidence is that lead was released during
- 6 the event. I have seen that evidence.
- 7 Q. (Continuing, by Ms. Levens) You have seen that
- 8 evidence?
- 9 A. Yes, I think that's pretty well-accepted.
- 10 MS. LEVENS: I think this might be a
- good time to take a break for lunch.
- 12 A. Okay.
- 13 VIDEOGRAPHER: Off the record 12:53.
- 14 (Recess 12:53 p.m. to 1:30 p.m.)
- 15 VIDEOGRAPHER: We are back on the
- 16 record at 1:30 p.m.
- 17 Q. (Continuing, by Ms. Levens) Welcome back,
- Dr. Crowe. Having taken a break for lunch, is
- there any testimony from earlier today that you
- 20 would like to change?
- 21 A. No.
- 22 Q. Both today and throughout your reports, you've
- referenced weepers. Can you tell me what
- 24 weepers are in your opinion?
- 25 A. A weeper is an area on a pipe where there is

- 1 kind of a pit or some other defect on the other
- side which is filled with scale and other
- deposits and so it forms kind of a porous plug
- 4 and so water can get, can diffuse through that
- 5 scale or whatever else is in that plug and wet
- 6 the exterior surface and sometimes you'll see a
- 7 hail of salts and other things that have
- 8 collected in that area. It would just be
- 9 slightly damp, so that's a weeper.
- 10 Q. And is a weeper more or less serious than a pit?
- 11 MR. TER MOLEN: Objection to form, vague.
- 12 You can answer if you understand.
- 13 A. I don't think there's a way to rank whether one
- is better than the other, honestly.
- 15 Q. (Continuing, by Ms. Levens) In your opinion is
- the existence of weepers a sign of pipe failure?
- 17 A. I think that from most people's point of view,
- particularly the owners of the home, weepers
- aren't really a failure from their perspective
- because water is not really leaking out, it's
- 21 not dripping. From the materials point of view
- or from somebody concerned with materials, it's
- time to replace the pipe, so it's not a failure
- but an indication of end of life.
- 25 Q. And would you consider you're someone who is

- thinking about these things from a materials
- point of view?
- 3 A. I try to think about it from every point of view.
- 4 Q. Do you regard yourself as a materials expert?
- 5 A. Yes, I think so.
- 6 Q. And do you regard pits as a sign of pipe failure?
- 7 A. No, they're not a sign of pipe failure.
- 8 Q. Do you regard them as a sign of a pipe in good
- 9 condition?
- 10 A. Depending on the extent of the piping, it could
- be in good condition or it could be nearing the
- 12 end of its life.
- 13 Q. What would demonstrate a pipe in good condition
- that still shows pits?
- 15 A. A pipe that has very, very few pits or shallow
- pits would not be considered a failure.
- 17 Q. And how would you define a shallow pit?
- 18 A. When you look at pits and you cross-section
- them, they have different aspect ratios. That
- 20 means that the base of them, it could be wide
- and then the depth not very deep, so there would
- be kind of a wide aspect. You could have others
- 23 that are like a drill, that they are very long
- and they're small diameter and those are a sharp
- pit, so there's shallow pits and then there's

1	STATE OF MICHIGAN)
)
2	COUNTY OF MACOMB)
3	I, Ann L. Bacon, a Notary Public in and for
4	the above county and state, do hereby certify
5	that the witness, whose attached deposition was
6	taken before me in the entitled cause on the
7	date, time and place hereinbefore set forth, was
8	first duly sworn to testify to the truth, and
9	nothing but the truth; that the testimony
10	contained in said deposition was reduced to
11	writing in the presence of said witness by means
12	of stenography; that said testimony was
13	thereafter reduced to written form by mechanical
14	means; and that the deposition is, to the best
15	of my knowledge and belief, a true and correct
16	transcript of my stenographic notes so taken.
17	I further certify that the signature to and
18	the reading of the deposition by the witness was
19	waived by counsel for the respective parties
20	hereto; also, that I am not of counsel to either
21	party or interested in the event of this case. \bigcirc
22	Lin M. Bacon
23	Ann L. Bacon, Notary Public, Macomb County
24	Acting in Macomb County
25	My commission expires: 6/29/23